

| PUMP SCHEDULE  |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
|--|------|------------------------|-------------------------|---------|------------|---------------------|------------------|------------------------|-------------------------|----------------|----------------------|-------------|---------------|-------|-------|------------|---------|------------------|---------------|
| REFERENCE  |      |                        |                         | PUMP    |            |                     |                  | ELECTRICAL             |                         |                |                      |             |               |       |       | MOUNTING   |         |                  |               |
| MARK   | INGR | MODEL                  | SERVICE                 | TYPE    | SPEED, RPM | CAPACITY, L/M (GPM) | TOTAL HEAD, F.T. | OPR. TEMP., DEG. C (F) | ASSEMBLED SIZE, MM (IN) | EFFICIENCY (%) | CONNECTIONS, MM (IN) | INR (AMP)   | MOTOR KW (HP) | VOLTS | PHASE | MOTOR TYPE | TYPE    | WEIGHT, KG (LBS) | REMARKS       |
| OMP-1  | B&G  | SERIES 80 2,5x2,5x4.58 | GEOTHERMAL WATER        | IN-LINE | 1750       | 341 (90)            | 148 (46)         | 71 (160)               | 181 (7.35)              | 40             | 64 (2.5)             | 2.7 (3.62)  | 3.7 (5)       | 208   | 3     | TEP        | IN-LINE | 102 (225)        | 1 (2) (3) (4) |
| OMP-2  | B&G  | SERIES 80 2,5x2,5x4.58 | GEOTHERMAL WATER        | IN-LINE | 1750       | 341 (90)            | 148 (46)         | 71 (160)               | 181 (7.35)              | 40             | 64 (2.5)             | 2.7 (3.62)  | 3.7 (5)       | 208   | 3     | TEP        | IN-LINE | 102 (225)        | 1 (2) (3) (4) |
| PHW-1  | B&G  | SERIES 80 3,5x7/8      | PRIMARY HEATING WATER   | IN-LINE | 1750       | 625 (165)           | 110 (37)         | 71 (160)               | 188 (6.62)              | 59             | 76 (3)               | 2.17 (2.91) | 2.2 (3)       | 208   | 3     | TEP        | IN-LINE | 86 (190)         | 1 (2) (3) (4) |
| PHW-2  | B&G  | SERIES 80 3,5x7/8      | PRIMARY HEATING WATER   | IN-LINE | 1750       | 625 (165)           | 110 (37)         | 71 (160)               | 188 (6.62)              | 59             | 76 (3)               | 2.17 (2.91) | 2.2 (3)       | 208   | 3     | TEP        | IN-LINE | 86 (190)         | 1 (2) (3) (4) |
| SHW-1  | B&G  | SERIES 80 2,0x2,5x8    | SECONDARY HEATING WATER | IN-LINE | 1750       | 265 (70)            | 19 (62)          | 71 (160)               | 203 (8)                 | 55             | 51 (2)               | 1.49 (2.0)  | 2.2 (3)       | 208   | 3     | TEP        | IN-LINE | 86 (190)         | 1 (2) (3) (4) |
| SHW-2  | B&G  | SERIES 80 2,0x2,5x8    | SECONDARY HEATING WATER | IN-LINE | 1750       | 265 (70)            | 19 (62)          | 71 (160)               | 203 (8)                 | 55             | 51 (2)               | 1.49 (2.0)  | 2.2 (3)       | 208   | 3     | TEP        | IN-LINE | 86 (190)         | 1 (2) (3) (4) |
| TYPICAL REQUIREMENTS:  |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| A. RE: DIVISION 23 SECTION "HYDRONIC PUMPS" FOR SPECIFICATIONS.  |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| B. IMPELLER SIZE SCHEDULED IS APPROXIMATE. FINAL SIZE SHALL BE DETERMINED BY MANUFACTURER BASED ON SCHEDULED POINT OF OPERATION. |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| C. PUMP SHALL NOT BE SUPPORTED FROM PIPE.  |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| D. PUMP SHALL NOT BE SUPPORTED FROM PIPE.  |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| E. PUMP SHALL NOT BE SUPPORTED FROM PIPE.  |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| F. PUMP SHALL NOT BE SUPPORTED FROM PIPE.  |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| G. PUMP SHALL NOT BE SUPPORTED FROM PIPE.  |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| H. PUMP SHALL NOT BE SUPPORTED FROM PIPE.  |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| I. PUMP SHALL NOT BE SUPPORTED FROM PIPE.  |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| J. PUMP SHALL NOT BE SUPPORTED FROM PIPE.  |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| K. PUMP SHALL NOT BE SUPPORTED FROM PIPE.  |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| L. PUMP SHALL NOT BE SUPPORTED FROM PIPE.  |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| M. PUMP SHALL NOT BE SUPPORTED FROM PIPE.  |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| N. PUMP SHALL NOT BE SUPPORTED FROM PIPE.  |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| O. PUMP SHALL NOT BE SUPPORTED FROM PIPE.  |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| P. PUMP SHALL NOT BE SUPPORTED FROM PIPE.  |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| Q. PUMP SHALL NOT BE SUPPORTED FROM PIPE.  |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| R. PUMP SHALL NOT BE SUPPORTED FROM PIPE.  |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| S. PUMP SHALL NOT BE SUPPORTED FROM PIPE.  |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| T. PUMP SHALL NOT BE SUPPORTED FROM PIPE.  |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| U. PUMP SHALL NOT BE SUPPORTED FROM PIPE.  |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| V. PUMP SHALL NOT BE SUPPORTED FROM PIPE.  |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| W. PUMP SHALL NOT BE SUPPORTED FROM PIPE.  |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| X. PUMP SHALL NOT BE SUPPORTED FROM PIPE.  |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| Y. PUMP SHALL NOT BE SUPPORTED FROM PIPE.  |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| Z. PUMP SHALL NOT BE SUPPORTED FROM PIPE.  |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| AA. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| AB. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| AC. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| AD. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| AE. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| AF. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| AG. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| AH. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| AI. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| AJ. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| AK. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| AL. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| AM. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| AN. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| AO. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| AP. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| AQ. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| AR. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| AS. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| AT. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| AU. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| AV. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| AW. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| AX. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| AY. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| AZ. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| BA. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| BB. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| BC. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| BD. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| BE. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| BF. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| BG. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| BH. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| BI. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| BJ. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| BK. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| BL. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| BM. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| BN. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| BO. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| BP. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| BQ. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| BR. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| BS. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| BT. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| BU. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| BV. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| BW. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| BX. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| BY. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| BZ. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| CA. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| CB. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| CC. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| CD. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| CE. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| CF. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| CG. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| CH. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| CI. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| CJ. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| CK. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| CL. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| CM. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| CN. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| CO. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| CP. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| CQ. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| CR. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| CS. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| CT. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| CU. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| CV. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| CW. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| CX. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| CY. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| CZ. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| DA. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| DB. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| DC. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| DD. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| DE. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| DF. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| DG. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| DH. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| DI. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| DJ. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| DK. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| DL. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| DM. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| DN. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| DO. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| DP. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| DQ. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| DR. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| DS. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| DT. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| DU. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| DV. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| DW. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| DX. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| DY. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| DZ. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| EA. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| EB. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| EC. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| ED. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| EE. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| EF. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| EG. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| EH. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| EI. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| EJ. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| EK. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| EL. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| EM. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| EN. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| EO. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| EP. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| EQ. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| ER. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| ES. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| ET. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| EU. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| EV. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| EW. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| EX. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| EY. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| EZ. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| FA. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| FB. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| FC. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| FD. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| FE. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| FF. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| FG. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| FH. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| FI. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| FJ. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| FK. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| FL. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| FM. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| FN. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| FO. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| FP. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| FQ. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| FR. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| FS. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| FT. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| FU. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| FV. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| FW. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| FX. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| FY. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| FZ. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| GA. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| GB. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| GC. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| GD. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| GE. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| GF. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| GG. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| GH. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| GI. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| GJ. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| GK. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| GL. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| GM. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| GN. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| GO. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| GP. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| GQ. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| GR. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| GS. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| GT. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| GU. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| GV. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| GW. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| GX. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| GY. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| GZ. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| HA. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| HB. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| HC. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| HD. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| HE. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| HF. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| HG. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| HH. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| HI. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| HJ. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| HK. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| HL. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| HM. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| HN. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| HO. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| HP. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| HQ. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| HR. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| HS. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| HT. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| HU. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| HV. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| HW. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| HX. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| HY. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| HZ. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| IA. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| IB. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| IC. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| ID. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| IE. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| IF. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| IG. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| IH. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| II. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| IJ. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| IK. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| IL. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| IM. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| IN. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| IO. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| IP. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| IQ. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| IR. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| IS. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| IT. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| IU. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| IV. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| IW. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| IX. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| IY. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| IZ. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| JA. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| JB. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| JC. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| JD. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| JE. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| JF. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| JG. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| JH. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| JI. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| JJ. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| JK. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| JL. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| JM. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| JN. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| JO. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| JP. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| JQ. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| JR. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| JS. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| JT. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| JU. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| JV. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| JW. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| JX. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| JY. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| JZ. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| KA. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| KB. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| KC. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| KD. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| KE. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| KF. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| KG. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| KH. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| KI. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| KJ. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| KK. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| KL. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| KM. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| KN. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| KO. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| KP. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| KQ. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| KR. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| KS. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| KT. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| KU. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| KV. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| KW. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| KX. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| KY. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| KZ. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| LA. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| LB. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| LC. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| LD. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| LE. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| LF. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| LG. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| LH. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| LI. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| LJ. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| LK. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| LL. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| LM. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| LN. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| LO. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| LP. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| LQ. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| LR. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| LS. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| LT. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| LU. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| LV. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| LW. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| LX. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| LY. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| LZ. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| MA. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| MB. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| MC. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| MD. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| ME. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| MF. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| MG. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| MH. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| MI. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| MJ. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| MK. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| ML. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| MM. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| MN. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| MO. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| MP. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| MQ. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| MR. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| MS. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| MT. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| MU. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| MV. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| MW. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| MX. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| MY. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| MZ. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| NA. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| NB. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| NC. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| ND. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| NE. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| NF. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| NG. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| NH. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| NI. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| NJ. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| NK. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| NL. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| NM. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| NN. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| NO. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| NP. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| NQ. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| NR. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| NS. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| NT. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| NU. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| NV. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| NW. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| NX. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| NY. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| NZ. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| OA. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| OB. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| OC. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| OD. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| OE. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| OF. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| OG. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| OH. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| OI. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| OJ. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| OK. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| OL. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| OM. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| ON. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| OO. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| OP. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| OQ. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| OR. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| OS. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| OT. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| OU. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| OV. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| OW. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| OX. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| OY. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| OZ. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| PA. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| PB. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| PC. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| PD. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| PE. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| PF. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| PG. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| PH. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| PI. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| PJ. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| PK. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| PL. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| PM. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| PN. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| PO. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| PP. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| PQ. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| PR. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| PS. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| PT. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| PU. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| PV. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| PW. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| PX. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| PY. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| PZ. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| QA. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| QB. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| QC. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| QD. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| QE. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| QF. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| QG. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |
| QH. PUMP SHALL NOT BE SUPPORTED FROM PIPE.   |      |                        |                         |         |            |                     |                  |                        |                         |                |                      |             |               |       |       |            |         |                  |               |

| HOT WATER BOILER SCHEDULE   |      |       |           |                     |             |                  |             |              |                |                 |              |              |              |                     |          |      |            |     |      |         |                      |                    |         |
|---|------|-------|-----------|---------------------|-------------|------------------|-------------|--------------|----------------|-----------------|--------------|--------------|--------------|---------------------|----------|------|------------|-----|------|---------|----------------------|--------------------|---------|
| REFERENCE   |      |       | GENERAL   |                     |             | PERFORMANCE DATA |             |              |                |                 |              |              |              |                     |          |      | ELECTRICAL |     |      | MOLTING |                      |                    | REMARKS |
| MARK  | MSGR | MODEL | SERVICE   | TYPE                | FUEL TYPE   | FUEL Rtg. (kW)   | INPUT (MBH) | OUTPUT (MBH) | IN. FLOW (GPM) | MAX. FLOW (GPM) | EHT. (deg F) | LWT. (deg F) | VOLUME (GAL) | PRESSURE (PSI WORK) | PSI TEST | VOLT | PHASE      | FLA | MOCP | TYPE    | OPERATING Wt. (LBS.) | SETTING Wt. (LBS.) |         |
| B-1   |      | HR-20 | HOT WATER | CASE IRON SECTIONAL | NATURAL GAS | 7                | 24,000      | 1,700        | 30             | 150             | 160          | 180          | 26           | 45                  | 100      | 208  |            | 1   | 11   | 20      | 68SE                 | 2,400              | 2,400   |
| TYPICAL REQUIREMENTS:   |      |       |           |                     |             |                  |             |              |                |                 |              |              |              |                     |          |      |            |     |      |         |                      |                    | ①②③④    |
| A. RE: DIVISION 15 SECTION "CONDENSING BOILERS" FOR SPECIFICATIONS.   |      |       |           |                     |             |                  |             |              |                |                 |              |              |              |                     |          |      |            |     |      |         |                      |                    |         |
| REMARKS:  |      |       |           |                     |             |                  |             |              |                |                 |              |              |              |                     |          |      |            |     |      |         |                      |                    |         |
| 1. PROVIDE WITH MODULATING GAS VALVE, GRAFT INDICATOR, CONDENSING VENT/RAIN TERMINATION ASSEMBLY INCLUDING HANGERS AND SUPPORTS AND A.C.A./P.W. APPROVED GAS TRAILN. BOILER FLUE TO BE EXTENDED IN FUTURE DUE TO ADDITION OF ELEVATOR AND BUILDING EXPANSION. |      |       |           |                     |             |                  |             |              |                |                 |              |              |              |                     |          |      |            |     |      |         |                      |                    |         |
| 2. BOILER PERFORMANCE BASED ON 100% PROPANE GAS @ 1 / 20% FRESH WATER COLUMN.   |      |       |           |                     |             |                  |             |              |                |                 |              |              |              |                     |          |      |            |     |      |         |                      |                    |         |
| 3. BOILER SHALL BE FIELD ADJUSTABLE TO REDUCE NO DE-DRAIN OF OUTPUT CAPACITY  |      |       |           |                     |             |                  |             |              |                |                 |              |              |              |                     |          |      |            |     |      |         |                      |                    |         |
| 4. CONTRACTOR SHALL MOUNT BOILER ON 4" CONCRETE HOUSE KEEPING PAUL COORDINATE WITH GENERAL CONTRACTOR.  |      |       |           |                     |             |                  |             |              |                |                 |              |              |              |                     |          |      |            |     |      |         |                      |                    |         |

| HEAT EXCHANGER SCHEDULE   |              |               |          |               |               |               |               |             |           |               |               |             |                       |         |       |
|---|--------------|---------------|----------|---------------|---------------|---------------|---------------|-------------|-----------|---------------|---------------|-------------|-----------------------|---------|-------|
| REFERENCE   |              |               | HOT SIDE |               |               |               |               |             | COOL SIDE |               |               |             |                       |         |       |
| MARK  | MANUFACTURER | MODEL #       | TYPE     | SERVICE       | GPM           | ENT,<br>deg F | LWT,<br>deg F | P.D.<br>PSI | GPM       | ENT,<br>deg F | LWT,<br>deg F | P.D.<br>PSI | HEAT TRANSFER,<br>MBH | REMARKS |       |
| HE-1  | JIT          | HEAT TRANSFER | P47      | PLATE & FRAME | HEATING WATER | 89.4          | 160           | 123         | 1.53      | 165           | 120           | 140         | 5.03                  | 1.927   | ① ② ③ |
| ① REMARKS:<br>1. HOT SIDE FLUID: GEOTHERMALLY HEATED FRESH WATER. COLD SIDE FLUID: 30% PROPYLENE GLYCOL / 70% FRESH WATER SOLUTION<br>2. PLATES SHALL BE 316 STAINLESS STEEL.<br>3. CONTRACTOR SHALL MOUNT HEAT EXCHANGER ON 4" CONCRETE HOUSE KEEPING PAD. COORDINATE WITH GENERAL CONTRACTOR. |              |               |          |               |               |               |               |             |           |               |               |             |                       |         |       |

| AIR SEPARATOR SCHEDULE |      |         |               |           |          |                        |                          |                 |                                |         |
|------------------------|------|---------|---------------|-----------|----------|------------------------|--------------------------|-----------------|--------------------------------|---------|
| REFERENCE              |      | GENERAL |               |           |          |                        |                          |                 |                                |         |
| MARK                   | ISSR | MODEL   | SERVICE       | TYPE      | STRAINER | CONNECTIONS<br>MM (IN) | DESIGN FLOW<br>L/M (GPM) | WPT<br>ICV (MM) | STRAINER AREA<br>SQ MM (SQ IN) | REMARKS |
| AS-1                   | B&G  | R-4     | HEATING WATER | SUSPENDED | YES      | 102 (4")               | 624 (165)                | - (-)           | 50322 (140)                    | ① ②     |

TYPICAL REQUIREMENTS:

A. RE: DIVISION 23 SECTION "HYDROIC PIPING AND SPECIALTIES" FOR SPECIFICATIONS.

① REMARKS:

1. PROVIDE WITH EXPANSION TANK VENT CONNECTION AT TOP.

2. PERFORMANCE BASED ON 30% PROPYLENE GLYCOL / 70% FRESH WATER SOLUTION.

| EXPANSION TANK SCHEDULE  |     |         |               |              |               |                      |                            |                                    |            |
|--|-----|---------|---------------|--------------|---------------|----------------------|----------------------------|------------------------------------|------------|
| REFERENCE  |     | GENERAL |               |              |               |                      | REMARKS                    |                                    |            |
| MARK   | MSR | MODEL   | SERVICE       | TYPE         | CONFIGURATION | TANK VOLUME, L (GAL) | ACCEPTANCE VOLUME, L (GAL) | SYSTEM CHARGE PRESSURE, KPA (PSIG) |            |
| PEI-1  |     | B&G     | HEATING WATER | BLADDER TANK | VERTICAL      | 400 (106)            | 400 (106)                  | -                                  | 537 (1184) |
| TYPICAL REQUIREMENTS:  |     |         |               |              |               |                      |                            |                                    |            |
| A. REFER TO DIVISION 23, "HYDRONIC PIPING AND ACCESSORIES" FOR ADDITIONAL REQUIREMENTS.  |     |         |               |              |               |                      |                            |                                    |            |
| REMARKS:<br>1. TANK SIZING BASED ON 30% PROPYLENE GLYCOL / 70% FRESH WATER SOLUTION.<br>2. FURNISH WITH CHARGING VALVE, 25 mm (1") NPT TOP SYSTEM CONNECTION, DRAIN VALVE, FLOOR MOUNTING SHIRT, AND SADDLES.<br>3. SYSTEM CHARGE PRESSURE SHALL BE SET IN FIELD<br>4. CONTRACTOR SHALL MOUNT EXPANSION TANK ON 4" CONCRETE HOUSE KEEPING PAD, COORDINATE WITH GENERAL CONTRACTOR. |     |         |               |              |               |                      |                            |                                    |            |

| AUTOMATIC GLYCOL FEEDER SCHEDULE |  |           |                    |               |                    |                 |          |       |                   |              |             |
|----------------------------------|--|-----------|--------------------|---------------|--------------------|-----------------|----------|-------|-------------------|--------------|-------------|
| REFERENCE                        | GENERAL  |           |                    |               |                    |                 |          |       |                   |              |             |
| MARK                             | MAJOR  | MODEL     | SERVICE            | CAPACITY, GPM | MAX. PRESSURE, PSI | RATING (GPM) @P | ELECTROL |       | TANK VOLUME, GAL. | WEIGHT, LBS. | REMARKS     |
|                                  |  |           |                    |               |                    |                 | VOLT     | PHASE |                   |              |             |
| Gr-1                             | WESSEL'S   | GPM-15100 | HEATING WATER LOOP | 1.7           | 70                 | (1) 1/2         | 120      | 1     | 100               | 1,100        | (1) (2) (5) |
| (X)                              | REMARKS:   |           |                    |               |                    |                 |          |       |                   |              |             |
|                                  | 1. PERFORMANCE BASED ON 30% PROPYLENE GLYCOL / 70% FRESH WATER SOLUTION.   |           |                    |               |                    |                 |          |       |                   |              |             |
|                                  | 2. FINISH WITH LEVEL SWITCH CONTACT FOR MONITORING BY DDC SYSTEM   |           |                    |               |                    |                 |          |       |                   |              |             |
|                                  | 3. CONTRACTOR SHALL MOUNT GLYCOL FILL TANK ON 4" CONCRETE HOUSE KEEPING PAD. COORDINATE WITH GENERAL CONTRACTOR. |           |                    |               |                    |                 |          |       |                   |              |             |

[illegible]